

STEREO MOC Status Report  
Time Period: 2014:237 - 2014:243

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- None.

2. The following spacecraft/instrument events occurred during this week. Note that the Ahead observatory is operating on the first lobe of the HGA to prevent overheating of the HGA feed assembly.

- On day 237, during the DSS-25 support, side lobe communications were tested with a DSN 34 meter station on the Ahead observatory. At the low downlink rate of 633 bps and 30 degrees elevation, there was ~8 dB downlink margin on the first side lobe and ~2 dB on the second side lobe. Commanding was successful on both side lobes at 125 bps. With the successful confirmation of this 34m test, the project now considers the 34m subnet viable for emergency use as well as occasional spacecraft bus checks.
- On day 241, the 71<sup>st</sup> momentum dump was executed successfully at 0030z, which imparted a delta V of 0.098 m/sec.
- The average daily SSR playback volume for Ahead, while operating on the first side lobe, was 0.086 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On days 235 and 236, IDR files did not make it into the archive resulting in gaps in spacecraft and instrument data. The missing files were re-transmitted on 238, and new versions of data products were regenerated.

- On day 237, during the DSS 14 track, turbo decoder lock was lost briefly at 1507z. SSR pointers were re-positioned and all SSR data was received.
- On day 242, during the DSS-26 support, initial telemetry lock was established two minutes late at 1512z due to the Automated Link Build at the station not being able to configure for the support. No command uplink was available as the transmitter remained red for the duration of the support. See DR #G115400 for more information.

2. The following spacecraft/instrument events occurred during this week:

- On day 237, the 66<sup>th</sup> momentum dump was executed successfully at 1830z, which imparted a delta V of 0.074 m/sec.
- On day 239, the Data Handling 1.1.8 and Power 1.0.3 parameter releases were loaded to C&DH EEPROM in preparations for Behind solar conjunction testing to commence on day 270.
- The average daily SSR playback volume for Behind was 4.8 Gbits during this week.